



OpenAIRE and research information management systems

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OpenAIRE strategy 2023-25

Our commitment to facilitate OS

OUR VISION

Transform society through validated scientific knowledge and allow researchers, educators, funders, civil servants and industry to find ways to make science useful for themselves, their working environments and society.

OUR MISSION

Shift scholarly communication towards openness and transparency, mobilising R&I actors to co-develop, co-invest and assume co-ownership of an open scholarly communication ecosystem.



ACTION LINES

SERVICES

1. Make OpenAIRE infrastructure and services core elements in the Open Science ecosystem.
2. Develop sustainable and innovative business and process models for Open Scholarly Communication.

TRAINING

3. Develop and operate a hub of quality training material for open science.
4. Support a decentralised pan-European Open Science competence centre and Helpdesk.

POLICIES

5. Develop collaborative communities of practice that strengthen Open Science adoption through regional coordination.

SUPPORTING ACTIONS

Partnerships

Participation in projects

Effective organisational structure

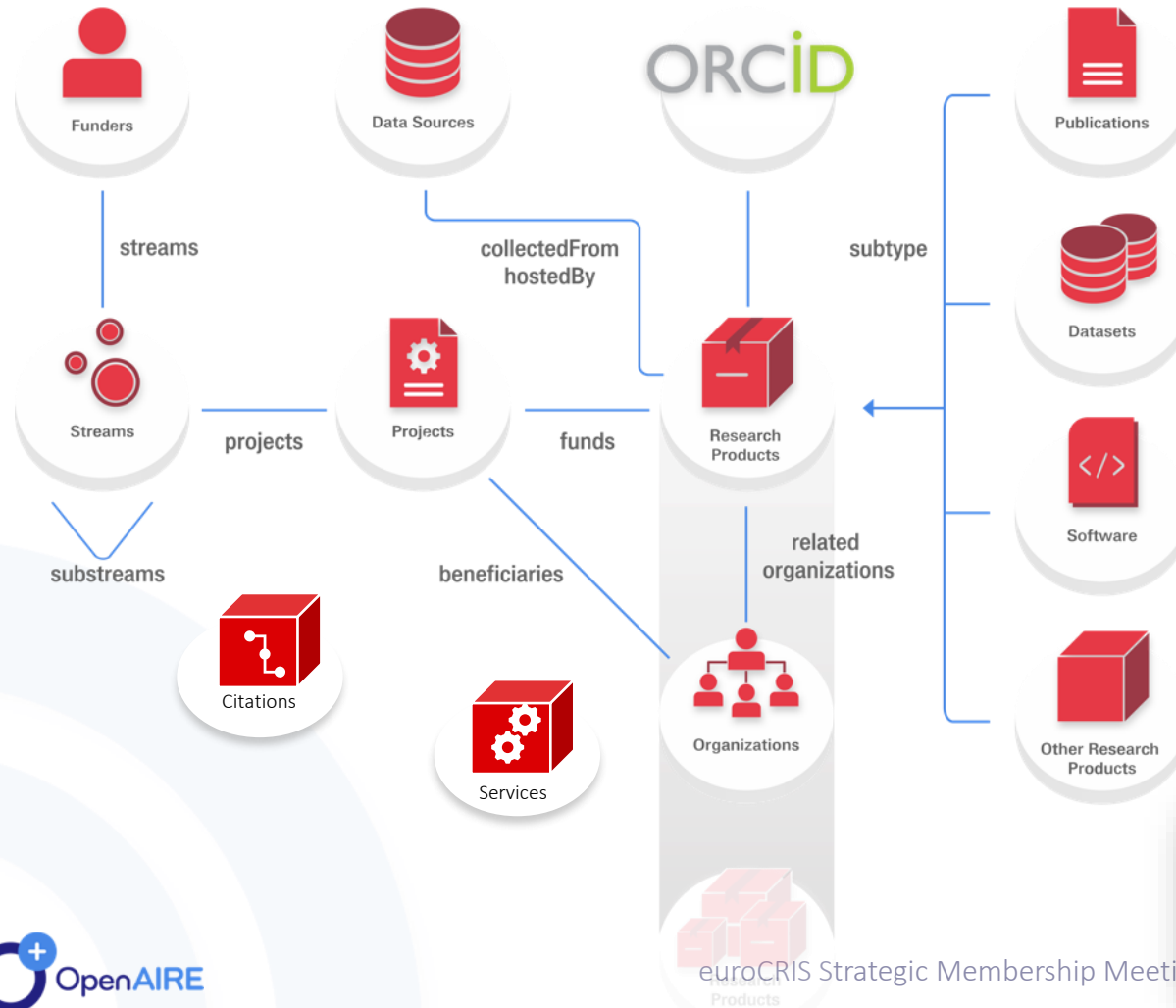


6 steps towards Open Science

- Adopting an Open Science Policy
- Link your repository, OA journals, CRIS to the world
- Publish research in the open
- Discover & share research with no barriers
- Monitor research outcomes, open science policy uptake, impact
- Train students, research and staff to perform Open Science

3. OpenAIRE Graph – key asset in Open Science infrastructure

inclusive, transparent, reproducible



- Based on **Open Science principles**
- High **relevance** to the research community



Global coverage

Open & authoritative sources,
open APIs, well established
metrics

Indicators & visualisations for
all needs

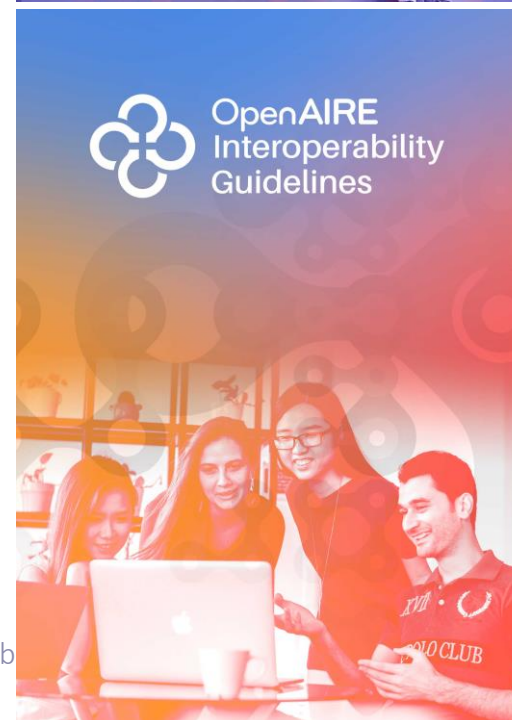
A comprehensive and open dataset of research information covering **194m** publications, **64m** research data, **414k** research software items, from **141k** data sources, linked to **3m** grants and **321k** organizations.

All linked together through citations and semantics.

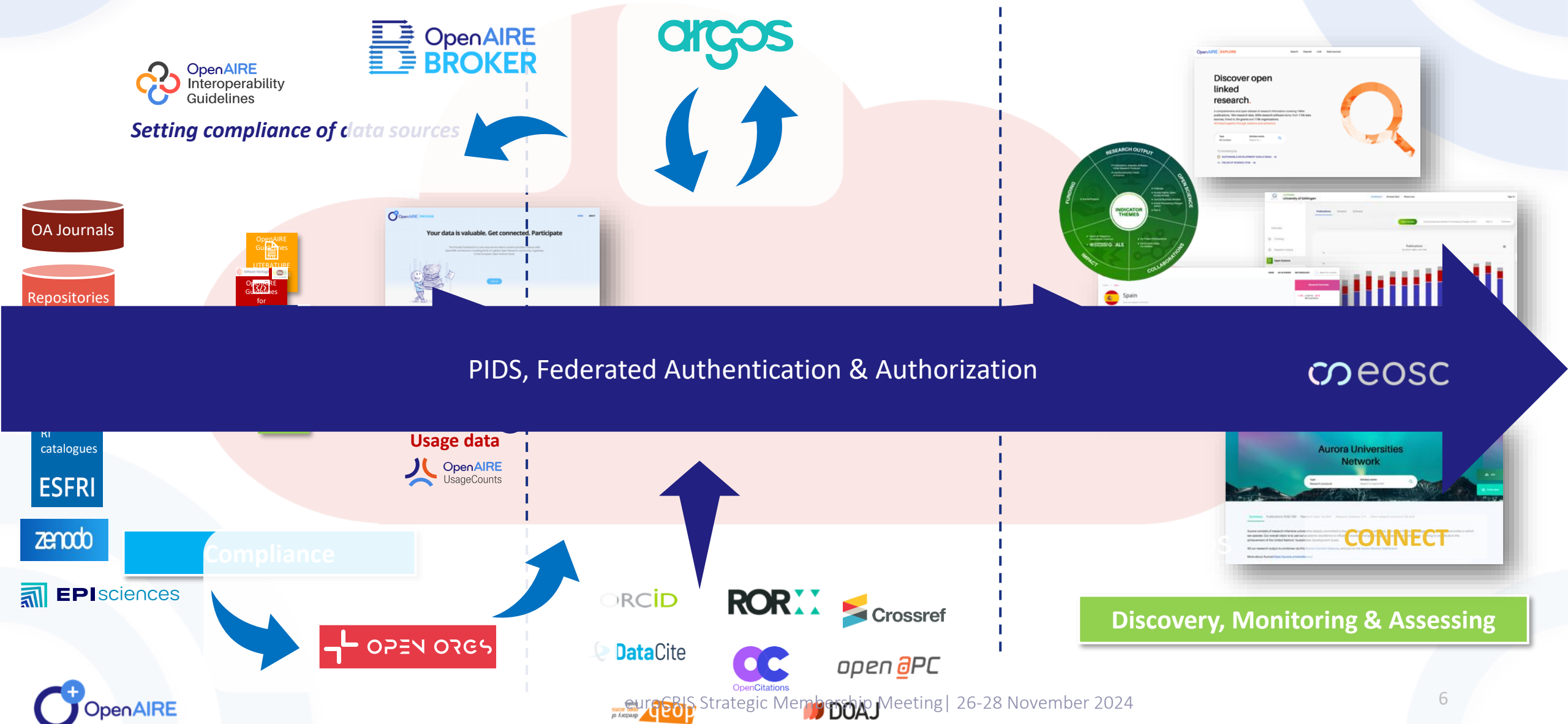
OpenAIRE PROVIDE

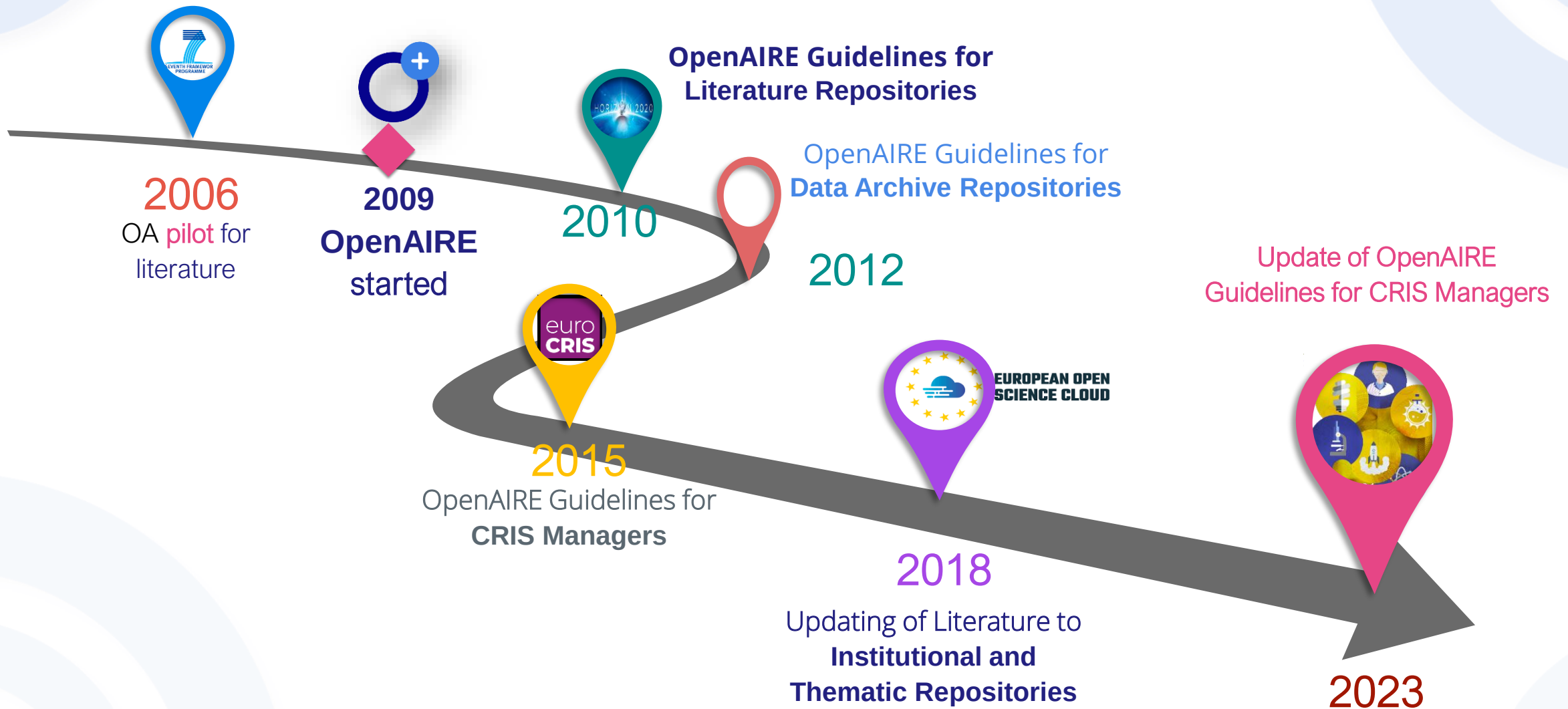
A one-stop-shop for metadata

- Make your data source **accessible** using Open, FAIR, and standard (meta)data
- Connect the research content to the **OpenAIRE Graph** and **EOSC**
- Get **notifications** on metadata updates
- Reveal hidden value of your research through OpenAIRE Services



CLOSING THE CYCLE: FROM PUBLISHING TO ASSESSMENT





more than an OpenAIRE path... a community journey to improve common practices

Present State

FAIR BY DESIGN ✓



For Institutional, Thematic Repositories and Publishing
Platforms



Data Archives



Guidelines



CRIS Platforms

euroCRIS
Current Research Information Systems

Software Repositories



Software Heritage



Other Research Products



OpenAIRE Guidelines for CRIS Managers

- v1.2.0, June 2023, <https://doi.org/10.5281/zenodo.8050936>
- v1.1.1, December 2018, <https://doi.org/10.5281/zenodo.2316420>
- v1.1.0, June 2018, <https://doi.org/10.5281/zenodo.1298650>
- v1.0, June 2015, <https://doi.org/10.5281/zenodo.17065>
- Compliance with the FAIR Principles: <https://doi.org/10.5281/zenodo.6627246>

CRIS information elements

- The OpenAIRE CERIF profile uses ten different CERIF information elements:
 - **Publication:** text based scholarly publications or publishing channels.
 - **Patent:** patents at various phases of the patenting process.
 - **Product:** other research products (datasets and software et.al.).
 - **Organisation Unit:** the institution itself and its organisational structure; to represent other institutions and their units, funders, publishers, etc.
 - **Person:** the institution's academic staff with support for five different types Persistent identifiers: ORCID iDs, Researcher IDs, Scopus Author IDs, ISNIs and DAIs (Digital Author Identifiers).
 - **Service:** the CRIS itself.
 - **Equipment:** equipment that is used in projects or for production of datasets.
 - **Event:** the conferences/workshops/seminars/... the institution has organized or the institution's staff has attended.
 - **Project:** the research projects.
 - **Funding:** to represent funding programmes, calls and individual project funding (grants, awards, contracts).

Commercial CRIS Software platforms

- Pure by Elsevier:
 - CERIF compliant
 - Issues with the compatibility with the OpenAIRE Guidelines
- Converis by Clarivate:
 - Not fully CERIF compliant.
 - OpenAIRE OAI-PMH Sets are not explicitly supported. *“Plans at the time to look more closely at the possibility of integration were not pursued due to other priorities and low demand.”*
 - University of Cape Town submitted a request to develop/support the integration of CERIF and the compatibility with the OpenAIRE Guidelines.

Commercial CRIS Software platforms

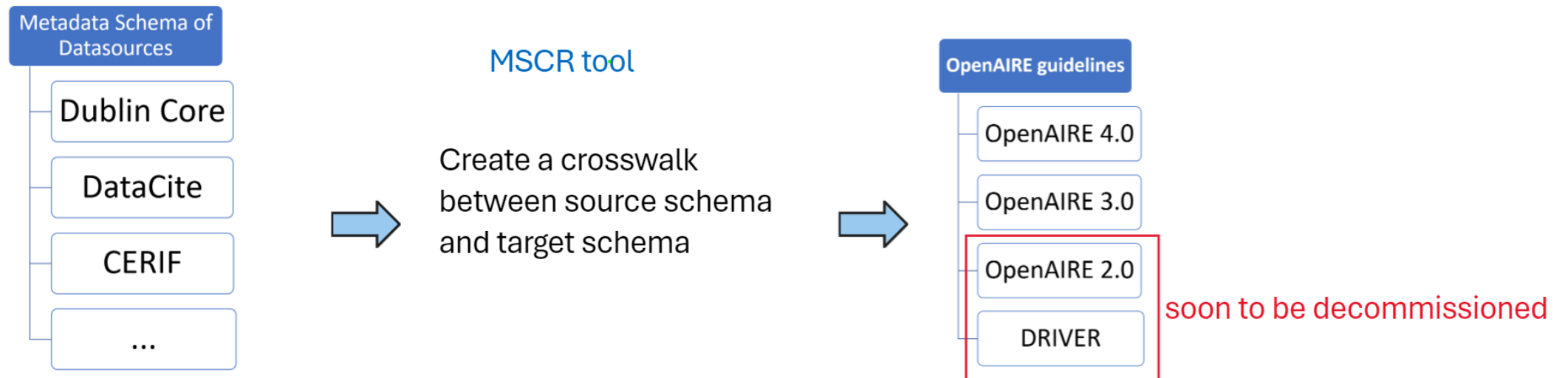
- Engage commercial software platforms to CERIF support and compatibility with the OpenAIRE Guidelines.
- Encourage institutions using commercial software platforms to advocate on developing and integrating CERIF support and align with the OpenAIRE Guidelines.

FAIRCORE4EOSC

Metadata Schema and Crosswalk Registry (MSCR)

- Register metadata schemas and crosswalks with flexible levels of technical detail.
- Create crosswalks using a dedicated user interface.
- Search, browse, and view registered schemas, crosswalks, and their associated content.
- All the above functionalities are accessible via the UI or through an API.

Crosswalk using MSCR



Crosswalk Process

[Crosswalk actions](#)

Metadata & files
Crosswalk
Version history

CERIF

Search from source schema

- Electronic Address
- Employment
- Decision
- Event
- Expertise And Skills
- Expertise and Skills Condition
- Expertise and Skills Possession
- Expertise and Time and Effort
- FundRef Identifier
- ▼ **Funding**
 - iterator source
 - subject source
 - <https://w3id.org/cerif2/Resource#isProvidedB>
 - <https://w3id.org/cerif2/Resource#hasIdentifie>
 - <https://w3id.org/cerif2/Resource#isRequested>
 - <https://w3id.org/cerif2/Resource#isUsedIn>
 - <https://w3id.org/cerif2/Resource#isOfferedIn>

OpenAIRE_Guidelines_for_LiteratureRepositoryManagers_schemas_v4.0.0

Search from target schema

- citationTitle
- citationVolume
- citationIssue
- citationStartPage
- citationEndPage
- citationEdition
- citationConferencePlace
- citationConferenceDate
- licenseCondition
- file
- version
- resourceType
- ▼ **fundingReferences**
 - fundingReference
 - fundingStream
 - any
 - description
 - publisher



Selected node info

```

@type:
:Funding
qname:
:Funding
description:
Money provided by an organization or
government for a particular purpose.
<sup>[1]</sup>
title:
Funding
type:
object
properties:

```

☒ Show node titles

Selected node info

```

type:
object
title:
fundingReferences
qname:
fundingReferences
maxCount:
1
minCount:
1
namespace:
http://namespace.openaire.eu/schemas/openaire/
properties:

```

☒ Show node titles

Specifying the Mapping of Attributes

Add mapping

Source	Mapping operation	Targets
Funding ^	Operation not selected ▼	fundingReferences ^
Type: object	Predicate	Type: object
Description: Money provided by an organization or government for a particular purpose.^[1](<#fn1></sup>	Exact match ▲	Description: N/A
Source operation	Broad match	Target operation
Operation not selected ▼	Broader	Operation not selected ▼
	Broader transitive	
	Close match	
	Exact match ✓	
	Narrow match	
	Narrower ▼	

[Save](#)[Cancel](#)

OpenAIRE CRIS Validator

- Integrate the euroCRIS OpenAIRE CRIS validator into OpenAIRE **PROVIDE**.
- The validator is currently available in beta.
- Plans are in place to disseminate it for review and feedback.

Thank you!

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